

(43) Date of A Publication 17.01.2001

(21) Application No 9914624.3

(22) Date of Filing 23.06.1999

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(51) INT CL⁷

G11C 7/16, H04M 1/656, H04N 5/76

(52) UK CL (Edition S)

G4C C700K
H4F FKX
H4L L1H10
U1S S2204 S2205 S2206 S2215

(56) Documents Cited

GB 2329997 A GB 2320389 A GB 2295065 A
GB 2232554 A GB 2231753 A GB 222742 A
US 5126982 A
MAPLIN 1991 Buyer's Guide to Electronic
Components page 414 UM5100 Digital voice recorder
& playback

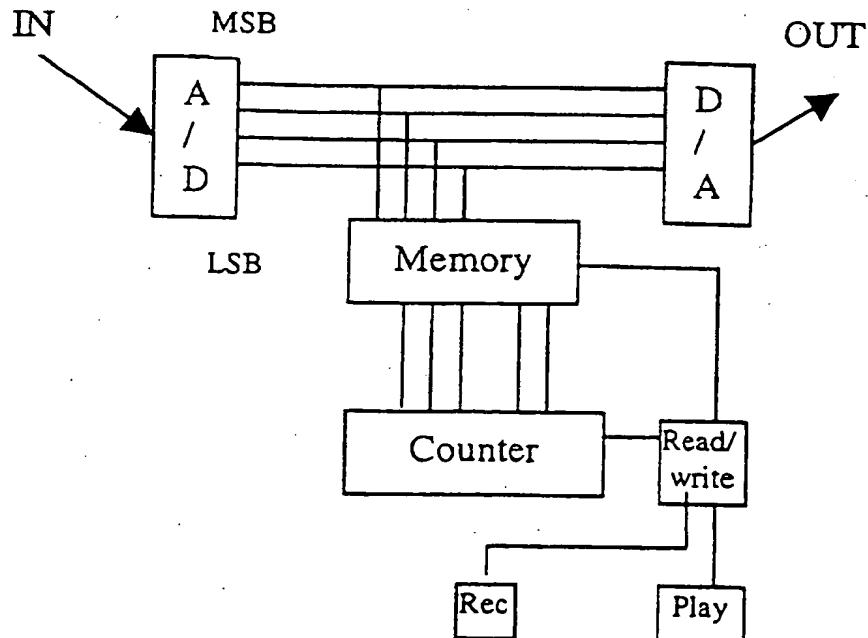
(58) Field of Search

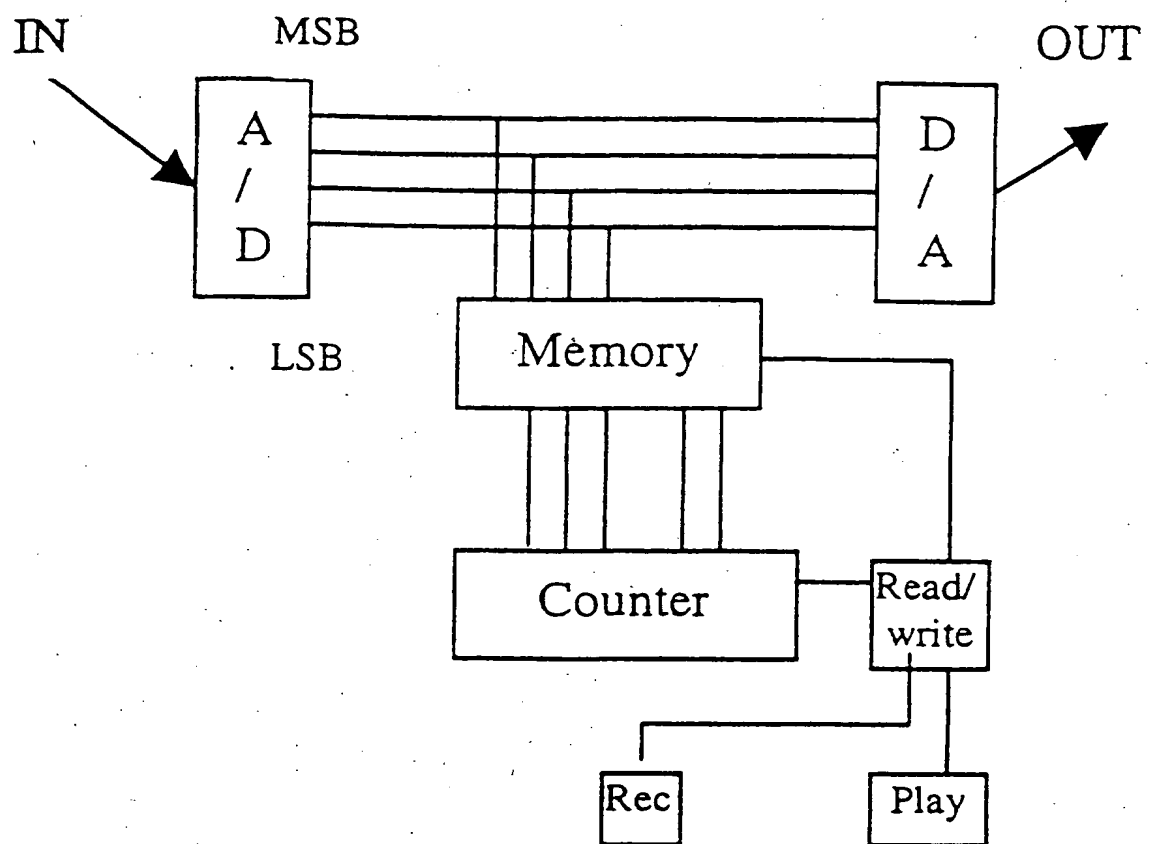
UK CL (Edition Q) G4C C700K, H4F FAAE FKX, H4L
LECX
INT CL⁶ G11C 7/00
Online: EPODOC; JAPIO; WPI

(54) Abstract Title

Recording and playback system

(57) A recording and playback system having a store for recorded data to be played back, means for writing to the store and means for reading from the store where and when the store is full the writing means loop back to a first-written part of the store to overwrite data thereon to provide continuous recording; and the writing means is responsive to an input to stop writing so that stored data can be played back. Playback of the last few hundred seconds of any continues signals (e.g. sound or picture) at any time decided by the operator. Incorporating the device with any sound or vision receiver equipment such as radio, telephones (including mobile phones), and television. Circular fashion of writing on any digital and analogue media such as memories or any other refreshable media such as magnetic media, and delay media for the purposes mention.





Introduction

Have you ever had difficulty, after listening to an advert you wish you were able to write down the number you missed, or just have that piece of music you heard, or after a telephone conversation you wish you could have what was said just a minute ago. Now with recording system *time back* you can.

Time back gives the user the possibility to access to whatever was said or heard through the phone or any other media (such as radio) or seen on the screen few minutes ago on the push of a bottom.

Description

In the case of using memories as a recording medium for sound, analogue sound would be digitised by means of an A/D converter. The digitised sound would be recorded on the memory with conventional methods. This means on each circle of the clock one byte of data would be transferred onto the memory. This task would be done continuously and after reaching to the end address of memory; the data would start to overwrite the first byte of data on the memory and on and on. In any particular instants, which the operator decides to listen to the recorded part, which could be a conversation that already has done or the advert, which already has been broadcast, he will push the "*record*" bottom. This will stop the clock; the "*play*" bottom then plays from the stopped segment onward. Which is the start of past conversation, which the length of it (considering fix-sampling rates), would depend on the amount of the memory. In the case of the above example it is possible to edit the recorded data, keep any particular segment and use the rest of the memory in the circular form.

The attached figure shows an embodiment of the invention, by way only of examples. In which signal "*IN*" (sound or video) enters the A/D converter, the digitised signal will be store in a "*MEMORY*". The counter specifies the address location in which data is going to be written, it always (recording or playback) counts to maximum address number of the memory and after reaching the last address starts from beginning. Pressing the "*REC.*" bottom at any time stops the clock. The "*PLAY*" bottom now can be used to playback the record data it will do that by change the status of memory to read and start the counter to count from the stopped address onward continuously. This data is accessible from the "*OUT*" port of the D/A converter.

Claims

- 1- A recording and playback system having a store for recorded data to be played back, means for writing to the store and means for reading from the store where and when the store is full the writing means loop back to a first-written part of the store to overwrite data thereon to provide continuous recording; and the writing means is responsive to an input to stop writing so that stored data can be played back.
- 2- Playback of the last few hundred seconds of any continues signals (e.g. sound or picture) at any time decided by the operator.
- 3- Incorporating the device with any sound or vision receiver equipment such as radio, telephones (including mobile phones), and television.
- 4- Circular fashion of writing on any digital and analogue media such as memories or any other refreshable media such as magnetic media, and delay media for the purposes mention in "2"and "1".



INVESTOR IN PEOPLE

Application No: GB 9914624.3
Claims searched: 1-4

Examiner: Brian Ede
Date of search: 7 October 1999

Patents Act 1977 Amended Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK CI (Ed.R): G4C(C700K) H4F(FAAE, FKX) H4L(LECX)

Int CI (Ed.7): G11C 7/00

Other: Online: EPODOC; JAPIO; WPI

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	GB 2329997 A (SONY) see Fig 3 and lines 6-9 of abstract	1-4
X	GB 2320389 A (L. DICKINSON) see abstract	1-4
X	GB 2295522 A (J. D MARSHALL) see especially paragraph 8 on page 1	1-4
X	GB 2295065 A (MITSUBISHI) see 10 Fig 1	1-4
X	GB 2232554 A (THOMSON) see 30 Fig 1 and page 12, line 9 to page 13, line 6	1-4
X	GB 2231753 A (GOLDEN RIVER LTD) see 60, 62, 64 Fig 2 and especially lines 2 and 3 of abstract	1-4
X	GB 2222742 A (HASHIMOTO) see the figure, abstract and especially page 3, lines 17-20	1-4
X	US 5126982 (YIFRACH) see Fig 2 and especially column 1, lines 24-28	1-4
X	MAPLIN 1991 Buyer's Guide to Electronic Components September 1990-August 1991, page 414 UM5100 Digital Voice Recorder and Playback	1-4

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

DOCKET NO: P2001, 0274

SERIAL NO: _____

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